



## Certificate of Analysis

(Page 1 of 2)

Client : SPRAGUE ENERGY  
Product : #6 Fuel Oil  
Client Ref : V-05-00623

Report No : 176  
SGS File No : 783897

LIMS No : 176 - 1157  
Sample Description : Shoretank 11, Composite UML sample. After discharge  
Barge B - 195. Sampled at Sprague Quincy, MA. Sampled  
by SGS.

Lab No : P111501297

\*P111501297\*

Tested On : 4/12/2005

METHOD	TEST	RESULT	
ASTM D 4052	API Gravity @ 60F, Calc	13.9	°
ASTM D 93b	Flashpoint, PMCC	224	°F
ASTM D 4294	Total sulfur content	0.479	Wt-%
ASTM D 445	Kinematic Viscosity, 122°F		
	Kinematic Viscosity, 122°F	274.9	csf
	Kinematic Viscosity, 122°F	129.90	SFS
ASTM D 97	Pour Point	70	°F
ASTM D 97	Pour Point	21	°C
ASTM D 1796	Water and Sediment by Centrifuge	0.150	% vol
D473	Sediment by Extraction	0.08	vol%
ASTM D 95	Water by Distillation	0.100	Vol-%
ASTM D 189	Conradson Carbon Residue	6.1	%
IP 143	Asphaltenes	1.4	Wt-%
ASTM D 482	Ash	0.0770	Wt- %
ASTM D 5863 B	Sodium, MDL=1	9	ppm
ASTM D 5863 B	Vanadium, MDL=1	6	ppm
ASTM D 5762	Nitrogen by Chemiluminescence	0.29	Wt-%
ASTM D 240	Gross Heat of Combustion	18676	Btu/lb
ASTM D 240	Gross Heat of Combustion	151444	Btu/gal

Supervisor :

Kenneth Decie

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.

Date: 04/12/2005

Provision procedures apply to the documentation of plant test results. Also refer to ASTM D 3544-99/02, IP 147/96 and appendix F of IP standard methods for analysis and testing for utilization of test data to determine conformance with specifications.

Date printed: 04/12/2005

© Copyright SGS-UK 2004

SGS North America Inc.

Oil, Gas & Chemicals Services 324 Marginal St. Chelsea MA 02072  
TEL: (617) 889-0773 FAX: (617) 889-3029